

**Bonneville Power Administration
Fish and Wildlife Program FY99 Proposal**

Section 1. General administrative information

PIT Tag Purchase And Distribution

Bonneville project number, if an ongoing project 9808001

Business name of agency, institution or organization requesting funding
Pacific States Marine Fisheries Commission

Business acronym (if appropriate) PSMFC

Proposal contact person or principal investigator:

Name Carter Stein
Mailing Address 45 SE 82nd Dr. Ste. 100
City, ST Zip Gladstone, OR 97025
Phone 503.650.5400
Fax 503.650.5426
Email address carters@psmfc.org

Subcontractors.

Organization	Mailing Address	City, ST Zip	Contact Name

NPPC Program Measure Number(s) which this project addresses.

NMFS Biological Opinion Number(s) which this project addresses.

Other planning document references.

Subbasin.

Short description.

Purchase and distribute PIT tags needed for BPA funded projects and track number of tags purchased and dollars spent on a per project basis.

Section 2. Key words

Mark	Programmatic Categories	Mark	Activities	Mark	Project Types
X	Anadromous fish		Construction		Watershed
	Resident fish		O & M		Biodiversity/genetics
	Wildlife		Production		Population dynamics
	Oceans/estuaries		Research		Ecosystems
	Climate		Monitoring/eval.	X	Flow/survival
	Other		Resource mgmt		Fish disease
		X	Planning/admin.		Supplementation
			Enforcement		Wildlife habitat en-
			Acquisitions		hancement/restoration

Other keywords.

PIT Tag

Section 3. Relationships to other Bonneville projects

Project #	Project title/description	Nature of relationship
8331900	New Fish Tag System	PIT Tag R&D
9701000	Essential M&E Infrastructure-PIT tag Monitor Procurement and Installation	Procurement of ISO PIT tag system
8906500		PIT Tag Marking
9602004		PIT tag marking
9102800	Monitoring the smolt migration of wild snake river spring summer chinook	PIT TAG MARKING
9403400	ASSESSING SUMMER FALL CHINOOK RESTORATION IN THE SNAKE RIVER BASIN	PIT TAG MARKING
8712700		PIT TAG MARKING
8332300	SMOLT CONDITION AND ARRIVAL TIMING AT LOWER GRANITE DAM	PIT TAG MARKING
9005500	STEELHEAD SUPPLEMENTATION STUDIES IN IDAHO RIVERS	PIT TAG MARKING
9102900	LIFE HISTORY OF FALL	PIT TAG MARKING

	CHINOOK IN COLUMBIA RIVER	
9602400	CHANGES IN GAS BUBBLE DISEASE SIGNS & SURVIVAL OF MIGRATING JUV. SALMON/GAS	PIT TAG MARKING
8909802	SALMON SUPPLEMENTATION STUDIES IN ID RIVER. NEZ PERCE TRIBE	PIT TAG MARKING
8335000		PIT TAG MARKING
9602610		PIT TAG MARKING
9107300	IDAHO NATURAL PRODUCTION MONITORING EVALUATION 83-7 ESA	PIT TAG MARKING
9107200	REDFISH LAKE SOCKEYE SALMON CAPTIVE	PIT TAG MARKING
8909800	IDAHO SUPPLEMENTATION STUDIES	PIT TAG MARKING
9005200		PIT TAG MARKING
9302900	SURVIVAL ESTIMATION FOR DAM RESIVOIR PASSAGE	PIT TAG MARKING
8812000		PIT TAG MARKING
9008000	COLUMBIA BASIN PIT TAG DATABASE	PIT TAG SYSTEM OPERATIONS AND MAINTENANCE
8401400	SMOLT MONITORING AT FEDERAL DAMS	PIT TAG MARKING
9602000	1997 HATCHERY PIT TAG STUDY; COMARATIVE SURVIVAL RATE OF HATCHERY CHINOOK	PIT TAG MARKING
8906500	ANNUAL FISH MARKING PROGRAM MISSING HATCHERY PRODUCTION GROUPS ID/WA/OR/FWS	
	DELETE	

	DELETE	

Section 4. Objectives, tasks and schedules

Objectives and tasks

Obj 1,2,3	Objective	Task a,b,c	Task
1	ADMINISTRATION MANAGEMENT AND COORDINATION	a	UPON RECEIPT OF FUNDING FROM BPA IN ACCORDANCE WITH THE COUNCIL'S PRIORITIZATINO PROCESS, AND UPON REQUEST FROM INDIVIDUAL PROJECT SPONSORS, PSMFC SHALL PURCHASE AND DISTRIBUTE PIT TAGS FOR COLUMBIA RIVER BASIN RESEARCH, MONITORING AND EVALUATION PROGRAMS
		b	PROVIDE QUARTERLY ACCOUNTING OF PIT TAG INVENTORY ON HAND.

Objective schedules and costs

Objective #	Start Date mm/yyyy	End Date mm/yyyy	Cost %
1	10/1998	9/1999	100.00%

			TOTAL 100.00%

Schedule constraints.

MANUFACTURER REQUIRES 18 WEEKS BETWEEN ORDER AND DELIVERY OF TAGS.

Completion date.

2020

Section 5. Budget

FY99 budget by line item

Item	Note	FY99
Personnel		
Fringe benefits		
Supplies, materials, non-expendable property		
Operations & maintenance		
Capital acquisitions or improvements (e.g. land, buildings, major equip.)		
PIT tags	# of tags: To be determined by marking projects requiring PIT tags	
Travel		
Indirect costs		
Subcontracts		
Other		
TOTAL		\$ 0

Outyear costs

Outyear costs	FY2000	FY01	FY02	FY03
Total budget				
O&M as % of total	0.00%	0.00%	0.00%	0.00%

Section 6. Abstract

Purchase and distribute PIT tags to BPA funded projects.

Section 7. Project description

a. Technical and/or scientific background.

Purchase and distribute PIT tags to BPA funded projects. Each marking project estimates the number of tags required by that project. Tag funds identified in of those approved projects are subtracted from the marking project and added to this project.

Centralized purchasing of PIT tags required by BPA funded projects has the advantage of lower tag costs due to a bulk purchase agreement with the manufacturer. Centralized distribution of PIT tags provides the PTAGIS project (9008000) with the ability to identify researchers who have not submitted Tagging and Release Information prior to interrogation of PIT tagged fish at downstream PIT tag monitor locations. This provides for better data integrity of the PTAGIS dataset.

b. Proposal objectives.

1. Purchase and distribute PIT tags as approved by NPPC, funded by BPA and required by researchers.

c. Rationale and significance to Regional Programs.

Centralized purchasing of PIT tags required by BPA funded projects has the advantage of lower tag costs due to a bulk purchase agreement with the manufacturer. Centralized distribution of PIT tags provides the PTAGIS project (9008000) with the ability to identify researchers who have not submitted Tagging and Release Information prior to interrogation of PIT tagged fish at downstream PIT tag monitor locations. This provides for better data integrity of the PTAGIS dataset.

d. Project history

This activity was included in the Columbia River PIT Tag Information System (9008000) project in prior years.

Past Costs

1990	\$357,100
1991	\$523,600
1992	\$541,500
1993	\$2,035,700
1994	\$1,200,110
1995	\$683,907
1996	\$970,485
1997	\$1,025,518
1998	\$1,889,760

e. Methods.

Purchase tags as projects are approved by NPPC and funded by BPA.

Distribute tags to researchers as required.

Assumes that projects are approved 18 weeks prior to tags being required for tagging projects so that tags can be manufactured prior to marking.

Assumes very little or no inventory of PIT tags is kept.

PSMFC accounting system is utilized to account for tags by NPPC approved and BPA funded projects.

f. Facilities and equipment.

PSMFC accounting system and PTAGIS database system are used to account for tags by project.

g. References.

Section 8. Relationships to other projects

This project purchases the tags required by projects listed in Section 3.

Section 9. Key personnel

Carter Stein
Program Manager

- 2080 Hrs per Year
- Duties: Develop PTAGIS annual work plan and budgets;
- Prepare quarterly and annual reports;
- Manage system development life cycle for PTAGIS software;
- Investigate new technical capabilities related to software engineering techniques, new hardware and software and applicability to PTAGIS;
- Work with PTSC to develop and update Basin wide standards for PIT tag information processing;
- Develop production supportable implementations of new PIT tag technologies in cooperation with National Marine Fisheries Service;
- Supervise four full time positions, two Field Systems Engineers and two Programmer Analysts.

Degrees Earned:

Master of Business Administration, University of Portland, 1992

Bachelor of Science, Computer Science, Portland State University, 1985

Current Employer:

Pacific States Marine Fisheries Commission since September, 1992

Accomplishments:

- Conversion of PTAGIS prototype database into stable production environment.
- Established PIT tag Operations and Maintenance Field Office in Kennewick, WA.
- Managed installation of PIT interrogation systems at Lower Monumental and McNary Dams.
- Lead development of technical specifications for ISO based stationary transceiver system for deployment in Columbiar River Basin.
- Lead development of technical specification for ISO based portable transceiver system for deployment in Columbia River Basin.
- Recent Employer
- Tektronix, Inc. 1978-1992
 - Senior Software Engineer; CAX Data Management
 - Systems Development Project Leader

Publications:

Monitoring Endangered Salmon in the Columbia River Basin, Stein, Clough, Apr. 1995,
Presented to Computer Associates / Ingres World Conference, July 1995.

Section 10. Information/technology transfer

NPPC, BPA, CBFWA and PSMFC work with research community to develop tag forecast for subsequent migration year using telephone calls, paper memos and e-mail. BPA issues contract modification to PSMFC to purchase tags for NPPC approved projects. PSMFC issues quarterly forecast in memo to BPA.